

Applicant : Daniel J. Vavrick
Serial No. : 10/658,128
Filed : September 9, 2003
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Attorney Docket No.: Navy Case 84208

Amendments to the Claims:

The following listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A composite reactive material for ordnance comprising:
a metal foam having a void volume; and
a halogenated polymer imbibed into said void volume, wherein said halogenated polymer is formed from at least one monomer;
wherein said metal foam and said halogenated polymer together are ~~said the~~ reactive material.
2. (Currently Amended) The reactive material of claim 1, wherein ~~the~~ said metal foam comprises a metal selected from the group consisting of molybdenum, osmium, ~~titanium~~, boron, manganese, magnesium, ~~aluminum~~, nickel, mixtures of the foregoing, and an alloy comprising at least one ~~or more of~~ molybdenum, osmium, ~~titanium~~, boron, manganese, magnesium, ~~aluminum~~, and nickel.
- 3-4. (Cancelled)
5. (Currently Amended) The reactive material of claim 1, wherein ~~the~~ said polymer is at least partially fluorinated.
6. (Currently Amended) The reactive material of claim 1, wherein ~~the~~ said polymer monomer is formed from at least one or more monomers selected from the group consisting of fluoroalkyl esters of acrylic acid, tetrafluoroethylene, chlorotrifluoroethylene, dichlorodifluoroethylene, hexafluoropropylene, vinylidene dichloride, and vinylidene difluoride.
7. (Currently Amended) The reactive material of claim 1, wherein ~~the~~ said polymer monomer comprises polytetrafluoroethylene.
8. (Cancelled)

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9. (Currently Amended) The reactive material of claim 31, wherein ~~the~~ said particulate material includes finely divided metal particles that comprise aluminum.
10. (Cancelled)
11. (Currently Amended) The reactive material of claim 31, wherein ~~the~~ said particulate material produces a thermite mixture that comprises aluminum particles and iron oxide particles.
12. (Original) Ordnance comprising the reactive material of claim 1.
- 13-28. (Cancelled)
29. (Currently Amended) The reactive material of claim 31, wherein said particulate material disposed within said halogenated polymer is selected to produce a thermite.
30. (Previously Presented) The reactive material of claim 1, wherein said metal foam consists essentially of aluminum, said polymer consists essentially of polytetrafluoroethylene, and said particulate material disposed within said polymer comprises aluminum and iron oxide.
31. (Currently Amended) The reactive material of claim 1 further comprising a particulate material disposed within said halogenated polymer, said particulate material selected from the group consisting of finely divided metal particles, finely divided metal oxide particles, and mixtures of finely divided metal particles and finely divided metal oxide particles.
32. (Currently Amended) The reactive material of claim 1, wherein said metal foam constitutes from about 50% to about 35% of ~~said the~~ material and said halogenated polymer constitutes from about 65% to about 85% of ~~said the~~ material.